Precalculus Overview

Hello

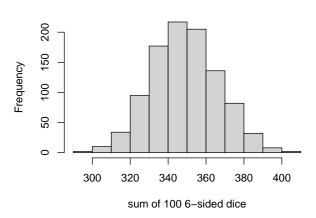
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Units

- Statistics
- Functions
- Exponential and Logarithmic Functions
- Trigonometric Functions
- ▶ Polar functions, vectors, and complex numbers
- Conic sections

Statistics

1000 repetitions of 100d6



Functions

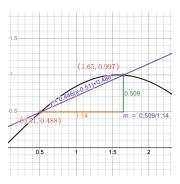
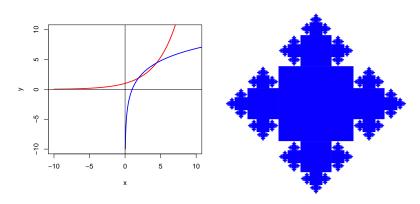


Figure 1: secant_graph.png

https://www.desmos.com/calculator/oiv0kjzsik

Exponential and Logarithmic Functions



https://bit.ly/3qxfPop

Trigonometric Functions

https://www.desmos.com/calculator/fhwymhwulu







https://auditoryneuroscience.com/acoustics/spectrogram

Vectors, Complex Numbers, Polar Functions, and Parametric Functions

https://www.desmos.com/calculator/ekuv2dg7uv

$$(a_1 + ib_1) \cdot (a_2 + ib_2) = (r_1 r_2)(\cos(\theta_1 + \theta_2) + i\sin(\theta_1 + \theta_2))$$



Conic Sections

https://commons.wikimedia.org/wiki/File:Solar-Cooker-2050-Paris.jpg

